

## M 5.1, 2 km SSE of Magas Arriba, Puerto Rico

Origin Time: 2020-08-07 03:26:59 UTC (Thu 23:26:59 local)

Location: 17.9444° N 66.7415° W Depth: 8.3 km

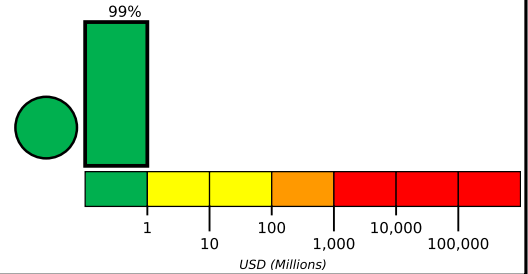
Created: 2 hours, 2 minutes after earthquake

### Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

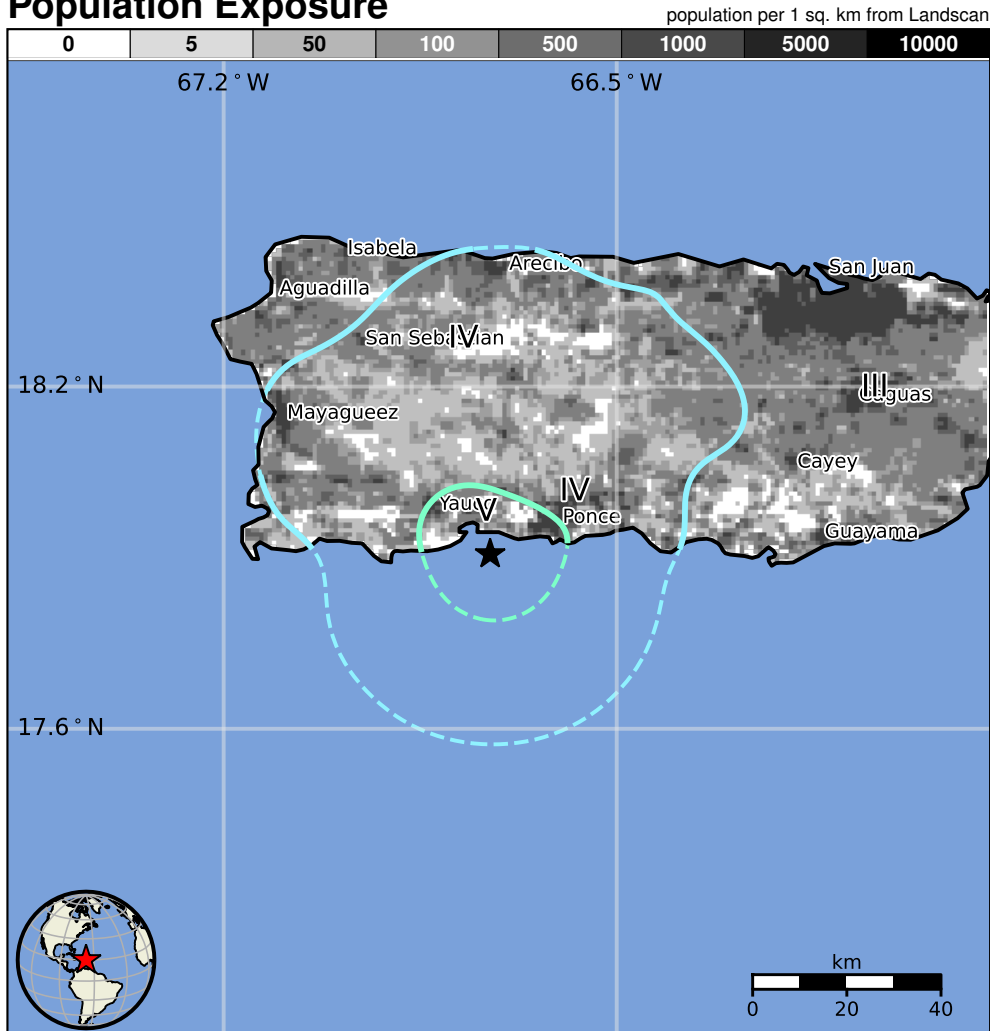


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	2,099k	970k	116k	1k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



### Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-23	246	6.6	VI(605k)	0
1980-11-12	344	5.9	VII(87k)	—
1984-06-24	277	6.7	VII(326k)	5

### Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Tallaboa	1k
V	Guayanilla	5k
V	Magas Arriba	1k
V	Indios	2k
V	Yauco	20k
V	Santo Domingo	4k
IV	Ponce	153k
III	Caguas	87k
III	Bayamon	203k
III	San Juan	418k
III	Carolina	170k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/pr2020220000#pager>

bold cities appear on map.

(k = x1000)

Event ID: pr2020220000